

Course description

General information about the course		
1. Major of study: medicine	2. Study level: unified MSc	
	3. Form of study: intramural	
4. Year: II	5. Semester: III	
6. Course name: Parasitology		
7. Course status: required		
8. Course contents and assigned learning outcomes		
<p>Laboratory diagnosis of parasitic diseases – technique of obtaining the specimens, the number and timing of specimens, rules of transportation to the laboratory. Biologic, morphologic, and physiologic characteristics of pathogenic parasites and parasite life cycle. Methods of laboratory diagnosis of parasitic disease: microscopic, serologic and molecular examination techniques.</p> <p>Classification of medically important parasites. Immune reactions to parasitic disease. Parasitic infections of the intestinal and urogenital tracts: techniques of stool examination, and collection and examination of specimens other than stool: perianal specimens, sigmoidoscopic material, duodenal aspirates, liver abscess aspirate, urine.</p> <p>Pathogenesis, epidemiology, clinical syndromes of medically important intestinal parasites (protozoan, nematodes, trematodes, cestodes). Parasitic infections of blood and tissue: blood films, immunodiagnosics, molecular diagnostic.</p> <p>Pathogenesis, epidemiology, clinical syndromes of medically important blood and tissue parasites (protozoa, roundworms). Medically important classes of arthropods. Selected human diseases transmitted by arthropods.</p> <p>Antiparasitic agents: targets for their action, chemotherapeutic strategies that exploit differences between parasite and host.</p> <p>Learning outcomes / reference to learning outcomes indicated in the standards For knowledge – student knows and understands: C.W12, C.W13, C.W15, C.W16, C.W17 C.W19 For skills student can do: C.U7 - C.U9, C.U12, C.U15 For social competencies student is ready to: student understands and recognizes the need to respect medical confidentiality, patient rights and is aware of its own limitations and the need for continuous training</p>		
9. Number of hours for the course		15
10. Number of ECTS points for the course		2
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
<p style="text-align: center;">Knowledge</p> <p>1. knows the classification of parasites, as pathogenic [C.W.12]</p> <p>2. knows the epidemiology of parasitic infections, taking into account the geographical range of their occurrence [C.W.13]</p>	Grade credit – MCQ	<p>* Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level</p> <p>Better than good (4,5) – the assumed learning outcomes have been achieved and</p>

<p>3. knows the consequences of exposure of the human body to various biological factors and the principles of prevention [C.W15]</p> <p>4. knows invasive forms or developmental stages of selected parasitic fungi, protozoa, helminthes and arthropods, taking into account the geographical range of their occurrence; [C.W16]</p> <p>5. knows the principle of the parasite-host interactions and knows the basic disease symptoms caused by parasites [C.W17]</p> <p>6. knows the basics of parasitic infections diagnostics [C.W19]</p>		<p>slightly exceed the required level</p> <p>Good (4,0) – the assumed learning outcomes have been achieved at the required level</p> <p>Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level</p> <p>Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level</p> <p>Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved</p>
<p style="text-align: center;">Skills</p> <p>1. is able to recognize the most common human parasites, based on their structure, life cycles and symptoms of diseases [C.U7]</p> <p>3. can use the antigen-antibody reaction in current modifications and techniques for the diagnosis of infectious diseases [C.U8]</p> <p>2. is able to prepare microscopic slides and recognizes parasites under the microscope [C.U9]</p> <p>3. can analyze reactive, defensive and adaptive phenomena as well as regulation disorders caused by an etiological factor [C.U12]</p> <p>4. can design patterns of rational empirical and targeted chemotherapy for parasitic infection [C.U15]</p>	<p>Grade credit – MCQ</p>	<p>*</p>
<p style="text-align: center;">Competencies</p> <p>1. student understands and recognizes the need to respect medical</p>	<p>Grade credit – MCQ</p>	<p>*</p>

confidentiality, patient rights and is aware of its own limitations and the need for continuous training		
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* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved